

International application No.

PCT/CA2004/001876

Α.	CLASSI	FICAT	о ио	F SU	BJECT	MATT	ER
	OG 9/32,						

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) C10G\*, B01D\*, B01J\*

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Delphion, Canadian Patent Database, USPTO

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).	
A	US 4,409,101 Salikhov et al (1983.10.11)	1-25	
A	US 5,658,455 Hammond et al (1997.08.19) cited in application	1-25	
A	US 5,714,056 Hammond et al (1998.02.03) cited in application	1-25	
A	US 5,919,352 Hammond et al (1999.07.06) cited in application	1-25	
A	US 6,596,242 Dries (2003.07.22)	1-25	

[] Further documents are listed in the continuation of Box C.	[] See patent family annex.		
* Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the actual completion of the international search 31 January 2005 (31-01-2005)	Date of mailing of the international search report 04 March 2005 (04-03-2005)		
Name and mailing address of the ISA/CA Canadian Intellectual Property Office Place du Portage I, C114 - 1st Floor, Box PCT 50 Victoria Street Gatineau, Quebec KIA 0C9 Facsimile No: 001(819)953-2476	Authorized officer Stephen Whiticar (819) 997-7509		

Patent Document Cited in Search Report	Publication Date	Patent Family Member(s)	Publication Date
US4409101	11-10-1983	none	
US5658455	19-08-1997	AU3403497 A CA2290022 A1 DE69731127D D1 EP0993499 A1 JP2002504181T T US5658455 A WO9858040 A1	04-01-1999 23-12-1998 11-11-2004 19-04-2000 05-02-2002 19-08-1997 23-12-1998
US5714056	03-02-1998	CA2223649 A1 EP0842240 A1 JP11509260T T US5714056 A WO9704041 A1	06-02-1997 20-05-1998 17-08-1999 03-02-1998 06-02-1997
US5919352	06-07-1999	AU8395398 A CA2223648 A1 CA2294313 A1 CN1264415T T DE69826503D D1 EA1351 B1 EP0842243 A1 EP1021497 A1 JP11509259T T JP2001510229T T US5919352 A W09704043 A1 W09903951 A1	10-02-1999 06-02-1997 28-01-1999 23-08-2000 28-10-2004 26-02-2001 20-05-1998 26-07-2000 17-08-1999 31-07-2001 06-07-1999 06-02-1997 28-01-1999
US6596242	22-07-2003	AT192479T T AU711645 B2 AU4780297 A BR9712122 A CA2265604 A1 CN1237198 C DE69701891D D1 DE69701891T T2 EP0832956 A1 EP0931121 A1 ES2148945T T3 GR3034019T T3 JP2001501245T T US6596242 B1 WO9814533 A1 ZA9708642 A	15-05-2000 21-10-1999 24-04-1998 31-08-1999 09-04-1998 01-10-2003 08-06-2000 05-10-2000 01-04-1998 28-07-1999 16-10-2000 30-11-2000 30-01-2001 22-07-2003 09-04-1998 26-03-1998
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